



## FIG. 3

## START

COMMUNICATE A FIRST SET OF DATA FROM A FIRST CHANNEL TO A FIRST SERIAL TO 100-PARALLEL CONVERTER AND A SECOND SET OF DATA FROM A SECOND CHANNEL TO A SECOND SERIAL TO PARALLEL CONVERTER

CONVERT FIRST AND SECOND SETS OF 102-DATA TO A PARALLEL FORMAT AND BEGIN ACCUMULATING A WORD IN EACH OF SERIAL TO PARALLEL CONVERTERS

MONITOR FIRST AND SECOND SERIAL 104 TO PARALLEL CONVERTERS IN ORDER TO DETERMINE THE STATUS OF EACH

COMMUNICATE ONE OR MORE WORDS FROM 106 FIRST AND SECOND SERIAL TO PARALLEL CONVERTERS TO FIRST AND SECOND WRITE CONTROLLERS RESPECTIVELY

WRITE ONE OR MORE OF THE WORDS TO A SELECTED ONE OF THE 108 FIRST AND SECOND MEMORY BANKS

MONITOR THE FIRST AND SECOND MEMORY BANKS TO DETERMINE WHEN ENOUGH WORDS HAVE ACCUMULATED IN EACH OF THE FIRST AND SECOND MEMORY BANKS TO FORM ONE OR MORE CELLS

READ ONE OR MORE OF THE CELLS OUT OF A SELECTED ONE OF THE FIRST AND SECOND MEMORY 112 BANKS SUCH THAT THEY MAY BE COMMUNICATED TO AN OUTPUT COMMUNICATIONS LINK

END